



PUBLIC NOTICE

File Number: NRS 14.119

Pursuant to Chapter 0400-40-07 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: Chris Griffith – Asst. City Manager
City of Murfreesboro
111 West Vine Street
(615) 893-5210

LOCATION: West Fork Stones River adjacent to Highway 99 and Cason Trail
Murfreesboro, Rutherford County, TN
Impact 1: Latitude: 35.824875 Longitude: -86.422051

PROJECT DESCRIPTION: The applicant proposes to stabilize approximately 675 linear feet of the left descending bank of the West Fork Stones River adjacent to Highway 99 and Cason Trail, Rutherford County TN. The proposed project will utilize riprap on the toe of the bank, planted gabion baskets where feasible and rock deflectors at selected locations.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: The West Fork Stones River is one of three branches of the Stones River. It originates in southern Rutherford County in agricultural and forestlands. The river flows north through increasingly urbanized and developed areas and is subject to highly variable flow patterns. The Stones River watershed encompasses portions of 4 counties and drains approximately 921 square miles. For more information on this watershed, please visit <http://www.state.tn.us/environment/water/watersheds/stones-river.shtml>

Stream Name / ID #: West Fork Stones River (TN05130203018_4000)

Ecoregion: Nashville Inner Basin (71i)

Stream Dimension: Channel bottom width: approximately 60- 80 feet
Chanel top width: approximately 60 – 80 feet
Water depth: approximately 0.5 – 3 feet
Bank height: approximately 5 - 15 feet

Substrate: Limestone bedrock with small amounts of cobble and transient littoral gravel bars.

Designated Use	Use Support	Causes
Fish and aquatic life	Fully Supporting	
Recreation	Fully Supporting	
Irrigation	Fully Supporting	
Livestock watering & wildlife	Fully Supporting	

Assessment Date: 2009

PERMIT COORDINATOR: Mark Jordan

FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

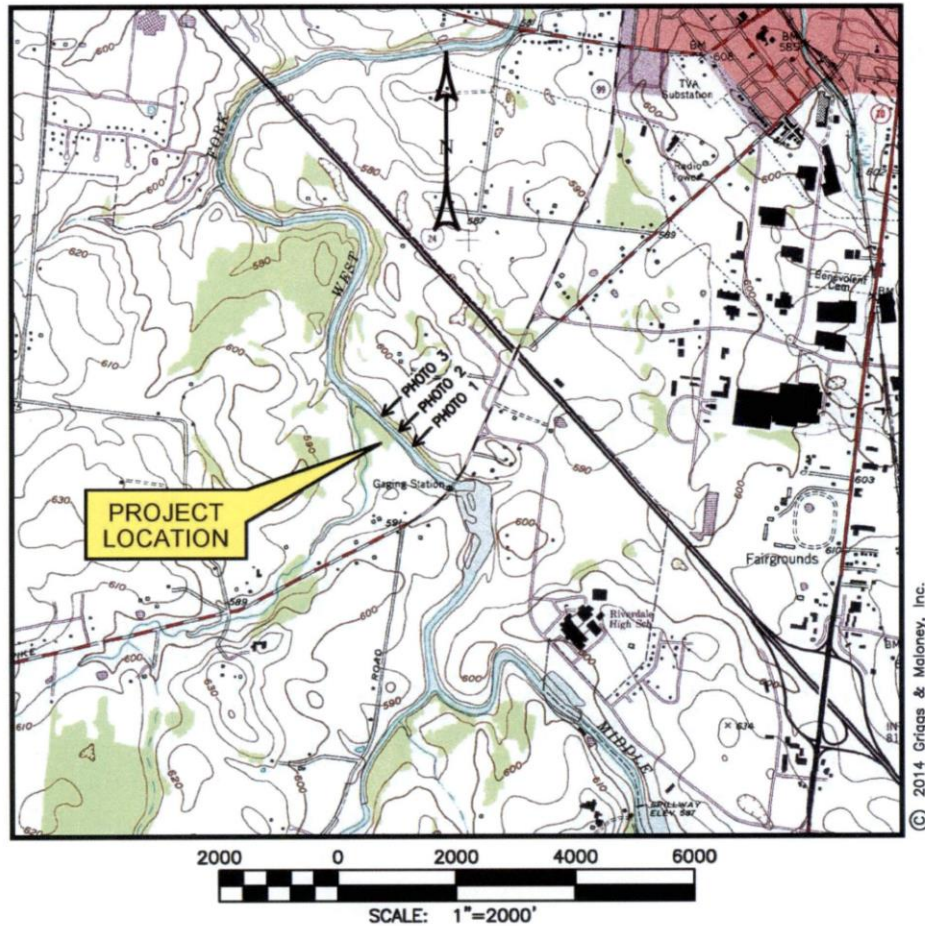
COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

APPEAL: A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-03-.12, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Dr. Sandra Dudley, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 12th floor, Nashville, TN. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
ATTN: Mark Jordan
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243



Taken from: U.S.G.S.
7.5 Minute Series (Topographic)
Murfreesboro Quadrangle
1950, Photorevised 1983

**GRIGGS & MALONEY
INCORPORATED**
Engineering & Environmental Consulting

P.O. BOX 2968, MURFREESBORO, TN 37133-2968
(615) 895-8221 • FAX (615) 895-0632

FILE NAME: L:\Environ\226-100\Drawings\226-100 Site on Topo.dwg

NOTE: ← REPRESENTS FACING DIRECTION
OF PHOTOGRAPH TAKEN BY REMOTE AERIAL
VEHICLE

Figure 1
Site Location Map
Stream Bank Stabilization and Restoration
West Fork Stones River at Cason Lane Trailhead
Murfreesboro, Tennessee

Project No. 226-100

March, 2014



Photograph 1



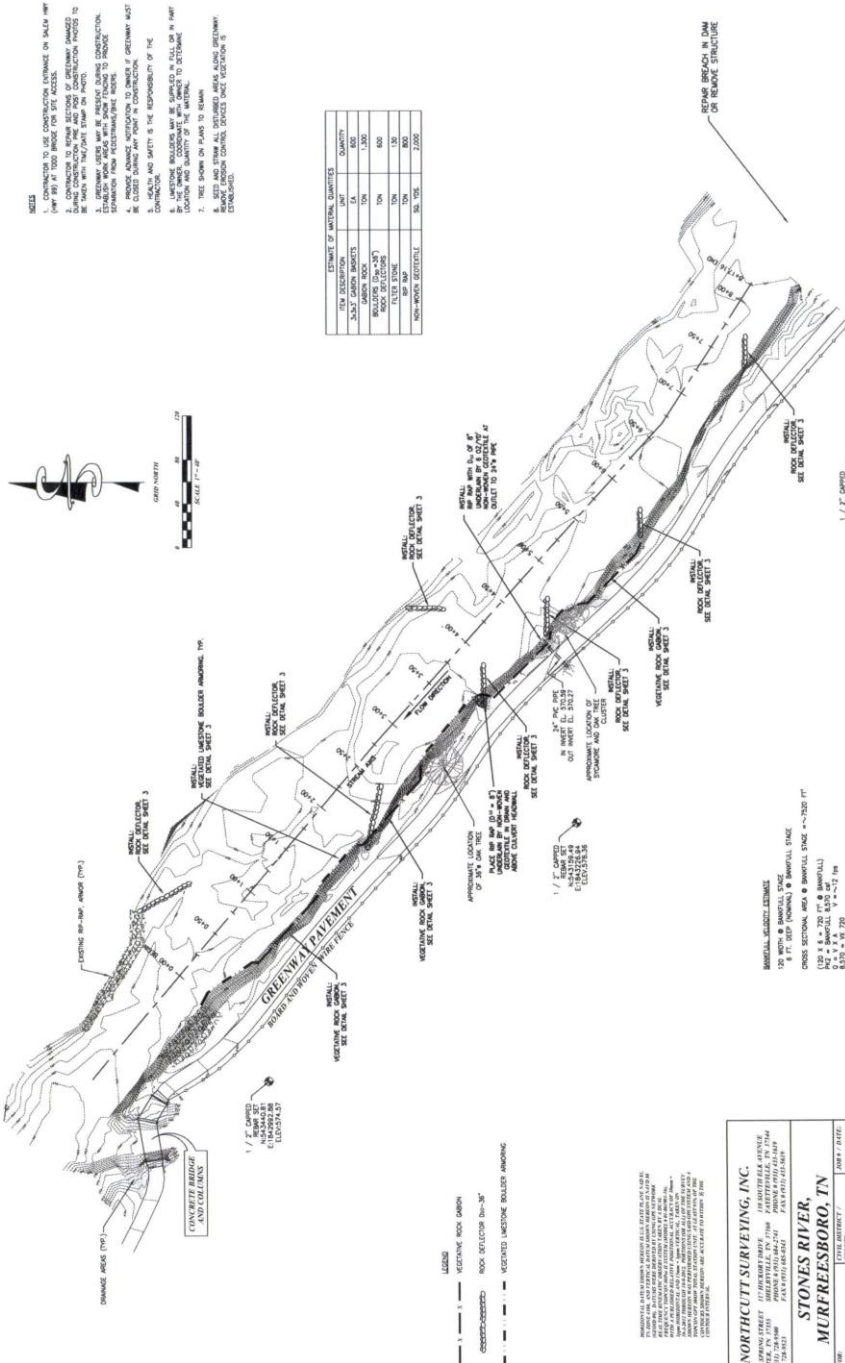
Photograph 2



Photograph 3

1. CONNECTION TO ROAD CONSTRUCTION INDEPENDENT ON SALE IN NEW CITY TO DOZ FOR CITY USE, ACCESS.
2. CONNECTION TO NEARBY SECTIONS OF CONSTRUCTION PLANNED TO BE COMPLETED WITHIN 12 MONTHS ON ROAD ON IMPROVEMENT.
3. PROPOSED AREA MAY BE PRELIMINARY CONSTRUCTION, ESTABLISH FIRM FOUNDATION WITH FIRM FOUNDING TO REDUCE SEPARATION FROM PERMANENTLY BUILT ROADS.
4. PROVIDE ADEQUATE AFFORDANCE TO OWNER OF EXISTING ROAD BEING CLIMBED AT THIS POINT IN CONSTRUCTION.
5. HEALTH AND SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. LATERAL COLLAPSE MAY BE DANGER ON FULL OR IN PART BY THE EXISTING CONTRACTOR WHEN SUBJECT TO EXISTING LOCATION AND QUANTITY OF MATERIAL.
7. TREE SHOW ON PLANS TO REMAIN.
8. SITE AND STREETS ALL DISTURBED AREAS ALONG GREENWAY DURING CONSTRUCTION SHOULD BE DROPPED DURING CONSTRUCTION.

ESTIMATE OF MATERIAL QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
3x5x5 CARBON BRICKETS	EA	800
CARBON ROCK	TON	1,300
BOLLERS (10x3x3) ROCK DETECTORS	TON	600
FILTER STONE	TON	130
REP RAP	TON	800
NON-WOVEN GEOTILE	SQ. YDS.	2,000



BANFULL VELOCITY ESTIMATE
 120 WORTH • BANFULL STAGE
 8 FT. DEEP (NORMAL) • BANFULL STAGE
 CROSS SECTIONAL AREA • BANFULL STAGE = ~7520 FT²
 (130 X 6 = 780 FT² • BANFULL)
 P42 • BANFULL 6,320 cdf
 O = V X A V = ~12 fps
 6,370 = 95 200

BANKFULL VELOCITY ESTIMATE
120 WIDTH • BANKFULL SPACE
8 FT. DEEP (NOMINAL) • BANK
CROSS SECTIONAL AREA • BANK
(120 X 8 = 720 FT²) • BANKFULL
PK2 • BANKFULL 8.570 cfs
Q = V X A V = 12 fpm
0.5 X 8 = 4
200 • 4 = 800

NORTHCUTT SURVEYING, INC.
108 SOUTH ALIA AVENUE
FRIEDTSHILLE, TN 37046
FAX (615) 421-3460

231 NORTH SPRING STREET
MANCHESTER, TN 37355
FAX (615) 482-8421

117 ROCKBURY DRIVE
SHELBYVILLE, TN 37080
FAX (615) 482-8421

**STONES RIVER,
MURFREESBORO, TN**

PREPARED FOR:	CIVIL DISTRICT / (COUNTY)	JOB # / DATE:
RICHARD MARTIN, GRIGGS & MALLON, INC.	BEVERLY HILL CO.	12C-482 08-12-2002

**GRIGGS & MALONEY
INCORPORATED**
Engineering & Environmental Consulting
P.O. BOX 29466, MEMPHIS, TN 37133-2946
(901) 495-4221 • FAX (901) 495-0433

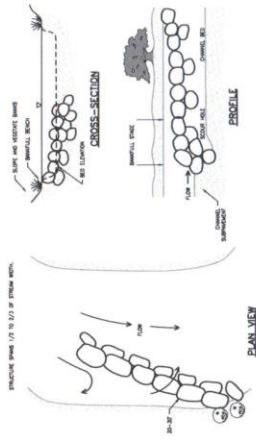
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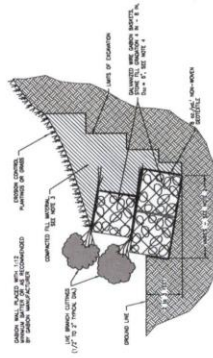
WEST FORK STONES RIVER STREAMBANK STABILIZATION
CITY OF MURFREESBORO
MURFREESBORO WATER AND SEWER DEPARTMENT

PROPOSED STABILIZATION MEASURES

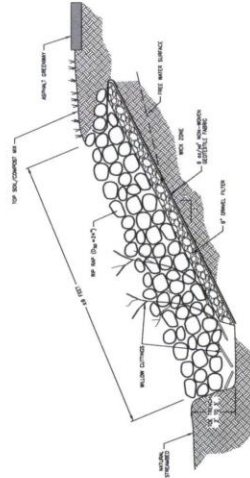
PROJECT NO. 226-100	
JULY DATE: 2013	DRAWN BY: DDM CHECKED BY: RRM APPROVED BY: RRM
SCALE: AS NOTED	
SHEET NO. 2 OF 3	



ROCK DEFLECTOR



VEGETATED ROCK GABION



VEGETATIVE LIMESTONE BOULDER ARMOR

GRIGGS & MALONEY
INCORPORATED
Engineering & Environmental Consulting
P.O. BOX 2988, MURFREESBORO, TN 37133-2988
(615) 895-0221 • FAX (615) 895-0222

WEST FORK STONES RIVER STREAMBANK STABILIZATION
CITY OF MURFREESBORO
MURFREESBORO WATER AND SEWER DEPARTMENT

PROJECT NO. 226-100
DATE: 05/13/2013
DRAWN BY: JSM
CHECKED BY: JSM
APPROVED BY: JSM

DETAILS

SHEET NO. 3 OF 3